

PCT

REC'D. 0 9 MAR 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CP/BB 60846-1947				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.				International filing date (day/month/year)	Priority date (day/month/year) 17.12.2002		
PCT/EP 03/15047				17.12.2003		17.12.2002		
International Patent Classification (IPC) or both national classification and IPC A61K31/52, A61P27/16								
Authorite, Authorited								
A11-								
Applicant CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE								
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
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3.	This	repor	t contains indications re	elating to the following it	ems:			
	l	\boxtimes	Basis of the opinion					
	[]		Priority					
	[]]		Non-establishment of	opinion with regard to n	ovelty, inventive step	p and industrial applicability		
	IV		Lack of unity of invent					
	٧	×	Reasoned statement citations and explanat	under Rule 66.2(a)(ii) wi tions supporting such sta	ith regard to novelty, atement	inventive step or industrial applicability;		
	VI		Certain documents cit	ted				
	VII		Certain defects in the	international application	ı			
	VIII		Certain observations	on the international appl	lication			
						•		
Date	of sub	missic	on of the demand	•,	Date of completion o	f this report		
16.07.2004					08.03.2005			
					Authorized Office			
			g address of the internation ining authority:	naı	Authorized Officer	September Patanzany.		
European Patent Office D-80298 Munich Ansaldo, M								
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/15047

I. E	3asis	of the	ne re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages									
	1-2	29	as originally filed								
	Cla	Claims, Numbers									
	1-9	•	as originally filed								
	Dra	Drawings, Sheets									
	1/8	-8/8	as originally filed								
2.	Wi	th regard to the lang guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.								
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:								
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).								
			olication of the international application (under Rule 48.3(b)).								
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under .3).								
3.	Wit inte	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:									
		contained in the inte	ernational application in written form.								
		filed together with th	ne international application in computer readable form.								
		furnished subseque	ntly to this Authority in written form.								
		furnished subseque	ntly to this Authority in computer readable form.								
		The statement that to in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.								
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.								
ŀ.	The	amendments have r	esulted in the cancellation of:								
		the description,	pages:								
		the claims,	Nos.:								
		the drawings,	sheets:								

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5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

2-3,5-6,8-9

No: Claims

1,4,7

Inventive step (IS)

Yes: Claims

No: Claims

1-9

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

The documents cited in the International Search Report (ISR) are numbered in the order of their listing. Unless otherwise specified, reference is made to the passages cited in the search report.

- 1. D1 discloses the use of cyclin-dependent kinase inhibitors for inducing differentiation of supernumerary hair cells and Deiters' cells in the developing organ of Corti for treating deafness.
 - D1 anticipates the subject-matter of claims 1,4,7 (Art. 33(1) and (2) PCT).
- 2. The object of the present application is the provision of a medicament for inducing differentiation of supernumerary hair cells and Deiters' cells in the developing organ of Corti for treating deafness.
- 3. The solution proposed by the present application is the use of cyclin-dependent kinase inhibitors, in particular purine derivatives such as roscovitine, indirubins and purvulanols.
- 4. D1 discloses the use of cyclin-dependent kinase inhibitors to solve the problem posed.
- 5. D4-D6 disclose that the purine derivatives roscovitine, indirubins and purvulanols are cyclin-dependent kinase inhibitors.
- Claims 1-9 are a priori not considered to be inventive, since the choice of alternative 6. cyclin-dependent kinase inhibitors is considered to be a task that the expert in the field routinely accomplishes without the involvement of inventive activity, especially since it does not appear to be associated to any special or surprising effect.